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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/005,473	11/06/2001	Somchai Kreang-Arekul	021106-000510US	7213
20350	7590 01/10/2006		EXAMINER	
TOWNSEND AND TOWNSEND AND CREW, LLP			CHOOBIN, BARRY	
TWO EMBARCADERO CENTER EIGHTH FLOOR SAN FRANCISCO, CA 94111-3834			ART UNIT	PAPER NUMBER
			2623	
			DATE MAILED: 01/10/2006	6

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)		
	10/005,473	KREANG-AREKUL ET AL.		
Office Action Summary	Examiner	Art Unit		
	Barry Choobin	2623		
The MAILING DATE of this communication appe Period for Reply	ears on the cover sheet with the c	orrespondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	TE OF THIS COMMUNICATION 6(a). In no event, however, may a reply be tirr ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).		
Status				
Responsive to communication(s) filed on <u>24 Oc</u> This action is FINAL . 2b)⊠ This Since this application is in condition for allowan closed in accordance with the practice under E.	action is non-final. ce except for formal matters, pro			
Disposition of Claims				
4) ☐ Claim(s) 1-39,43,44 and 54-68 is/are pending in 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) 54-58 and 62-66 is/are allowed. 6) ☐ Claim(s) 1-4,13-15,39,43,44,59-61 and 67 is/are 7) ☐ Claim(s) 5-12,16-38 and 68 is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	n from consideration. re rejected.			
Application Papers				
9)☐ The specification is objected to by the Examiner 10)☒ The drawing(s) filed on <u>06 November 2001</u> is/ar Applicant may not request that any objection to the o Replacement drawing sheet(s) including the correction 11)☐ The oath or declaration is objected to by the Examiner	re: a)⊠ accepted or b)⊡ object drawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
Attachment(s) 1) Notice of References Cited (PTO-892)	4) ☐ Interview Summary Paper No(s)/Mail Da			
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date		ate latent Application (PTO-152)		

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DETAILED ACTION

Response to Arguments

Applicant's arguments, see Remarks, filed 10/24/2005, with respect to the rejection(s) of claim(s) 1-39, 43-44 and 54-68 under Double Patenting have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Michael, Wei et al and Xiong et al.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1, 2, 39 are rejected under 35 U.S.C. 102(b) as being anticipated by Michael (US 5,640,200).

As to claims 1, 39, Michael discloses a method of aligning a plurality of images, the method comprising: providing a marker on a first image and a second image; overlapping the first image and the second image to match the marker on the first image with the marker on the second image (fig.4, column 6, lines 32-53); computing an absolute difference value between the pixel intensities of the overlapping portions of the first and second images to validate alignment between the first and

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second images (column 6, lines 32-52 wherein the method and apparatus employs the Sum of absolute differences metric equation).

As to claim 2, Michael discloses realigning at least one of the first image and second image if it is determined that the first and second images are misaligned (column 2, lines 23-34).

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 4. Claim 59-61 are rejected under 35 U.S.C. 102(e) as being anticipated by Xiong et al (US 2003/0179923).

As to claims 59, 60, Xiong et al disclose a stitched image comprising: a first portion comprising a first portion of a first image; a second portion comprising a first portion of a second image; and an overlap portion comprising a blended combination of a second portion of the first image and a second portion of the second image. (See paragraph 0045)

As to claim 61, DICOM DATA BASE is well know in the art of image processing system in particular in medical image processing.

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Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 3-4, 13, 14, 15, 43, 44, 67, rejected under 35 U.S.C. 103(a) as being unpatentable over Michael in view of Wei et al (US 2002/0044676).

Michael fails to disclose that the image is produced from a radiography device and further blending the overlap section of the images.

Wei et al disclose blending (combining) overlapped portion of the images (see fig.6); refer to fig. 2 for the displaying the overlapped section of the images.

Michael and Wei are combinable, because they both are in the same field of endeavor.

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of the invention to modify the work of Michael with Wei et al in order to provide a larger composed image.

Claim 67 is similarly analyzed and rejected.

Allowable Subject Matter

7. Claims 5-12, 16-38 and 68 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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Claims 54-58, 62-66 are allowed.

CONTACT INFORAMTION

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Barry Choobin whose telephone number is 571-272-7447. The examiner can normally be reached on M-F 7:30 AM to 18:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, WU JINGGE can be reached on 571-272-7429. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Barry Choobin

1/7/05